CIVIL-TECH CONSULTANTS AND ENGINEERS

An ISO 9001:2008 Certified Company
(Building, Geo-Tech & High way Material Testing Research Laboratory)
Engineering Project Consultants

AS-ANZ
BSCIC
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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	13	13	100%
TOTAL	13	13	100%

M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79. Tele fax : 23223227, Cell : 93428 39190

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c))40mm Aggregate	23.25	Cum	3	3	100%
2)Steel-8,10MM	3.2	Tonne	2	2	100%
3)Cube M20	47.88	Cum	6	6	100%
4)Precast Slab - 100MM	119.7	Sqm	1	1	100%
4)Precast Slab - 230MM	36	Sqm	1	1	100%
TOTAL			**13**	**13**	**100%**

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bangalore-560024

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/CEMENT/2022-23 Date: 28.04.2022

TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	Cement
Sample Received on	:	26.04.2022
Period of Testing	:	26.04.2022 to 28.04.2022
Report Issue Date	:	28.04.2022

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/SAND-Gradation/2022-23

28.04.2022

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	26.04.2022
Date of Testing	:	28.04.2022
Report Issue Date	:	28.04.2022

Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.60	90-100	90-100	90-100	95-100
2.36	78.60	60-95	75-100	85-100	95-100
1.18	59.40	30-70	55-90	75-100	90-100
600 Micron	39.20	15-34	35-59	60-79	80-100
300 Micron	14.00	5-20	8-30	12-40	15-50
150 Micron	4.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :
For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP Bangalore-560024

Pooja K. L.
Authorised Signatory

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/AGG/GR/2022-23

28.04.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	26.04.2022
Date of Testing	:	28.04.2022
Report Issue Date	:	28.04.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.40	95-100	85-100
20	38.00	30-70	0-20
10	13.00	10-35	0-5
4.75	2.48	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Byatarayanapura Sub Division
B.B.M.P. Bangalore

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Authorised Signatory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/VP/W.No.06/Steel/2022-23 • 28.04.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Samples ID	:	8mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	28.04.2022
Report Issue Date	:	28.04.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.05	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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M/s. Civil-Tech Consultants & Engineers

Pooja K.L.

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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Job No.: CTCE/BBMP/VP/W.No.06/Steel/2022-23 28.04.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	28.04.2022
Report Issue Date	:	28.04.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.15	O.K	O.K

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Cube/2022-23 04.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Bed Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.06.2022
Report Issue Date	:	04.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	04.06.2022	8.132	512.3	22.77
2	07.05.2022	04.06.2022	8.296	502.6	22.34
3	07.05.2022	04.06.2022	8.380	523.6	23.27

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.
Authorised Signatory

20.06.22
Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Bed Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.06.2022
Report Issue Date	:	04.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.05.2022	04.06.2022	8.293	478.6	21.27
2	07.05.2022	04.06.2022	8.392	485.6	21.58
3	07.05.2022	04.06.2022	8.415	512.3	22.77

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Cube/2022-23 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Bed Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.06.2022
Report Issue Date	:	06.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.293	513.6	22.83
2	09.05.2022	06.06.2022	8.345	526.3	23.39
3	09.05.2022	06.06.2022	8.415	508.7	22.61

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Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Cube/2022-23 07.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2022
Report Issue Date	:	07.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	07.06.2022	8.115	495.6	22.03
2	10.05.2022	07.06.2022	8.256	515.2	22.90
3	10.05.2022	07.06.2022	8.325	526.6	23.40

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Authorised Signatory

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Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Cube/2022-23 07.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	07.06.2022
Report Issue Date	:	07.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	07.06.2022	8.115	516.3	22.95
2	10.05.2022	07.06.2022	8.215	526.6	23.40
3	10.05.2022	07.06.2022	8.360	508.9	22.62

*Information is furnished by the Customer/Representative.

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M/s. Civil-Tech Consultants & Engineers

Pooja K. L.

Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagara, Bangalore-79.
Tele fax : 23223227, Cell : 93428 39190, Website : www.civiltechconsultants.com
e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Cube/2022-23 09.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Byatarayanapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. V.Ponnuswamy,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Construction of Culverts at Dasarahalli surrounding area in Ward No.06, Byatarayanapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/16/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2022
Report Issue Date	:	09.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2022	09.06.2022	8.297	512.2	22.76
2	12.05.2022	09.06.2022	8.315	522.3	23.21
3	12.05.2022	09.06.2022	8.392	532.4	23.66

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Byatarayanapura Sub Division
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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Precast Slab/2022-23 16.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Maruthisevanagara Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Venkataraju,** No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore – 560094.
* Name of work	:	Comprehensive development at New Govt School enclave, Tank Bund Road in Ward No.49, Lingarajapura, BBMP, Bangalore.
* Reference	:	EE/SGN/WO/60/2021-22 Dated : 17.02.2022
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab - 100MM Thick
*Grade of Concrete	:	M_{20}
Sample Received on	:	14.05.2022
Date of Testing	:	16.05.2022
Report Issue Date	:	16.05.2022

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	116.00	0.950	2362.32	1.73	0.970	143.60	16.25	17.23	17.75	22.19
2	67.00	112.00	0.956	2450.23	1.67	0.964	155.40	15.65	16.59	17.21	21.51
3	67.00	114.00	0.965	2502.20	1.70	0.967	140.60	16.05	17.01	17.59	21.99

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Authorised Signatory

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-560024

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Job No.: CTCE/BBMP/VP/W.No.06/CSR-96e/Precast Slab/2022-23 18.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Maruthisevanagara Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Venkataraju,** No.23, RMV 2nd Stage, Nagashettyhalli, Near Akai Public School, Bangalore – 560094.
* Name of work	:	Comprehensive development at New Govt School enclave, Tank Bund Road in Ward No.49, Lingarajapura, BBMP, Bangalore.
* Reference	:	EE/SGN/WO/60/2021-22 Dated : 17.02.2022
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab - 230MM Thick
*Grade of Concrete	:	M_{20}
Sample Received on	:	16.05.2022
Date of Testing	:	18.05.2022
Report Issue Date	:	18.05.2022

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	113.00	0.952	2389.57	1.69	0.966	143.60	15.60	16.54	17.13	21.41
2	67.00	114.00	0.952	2368.60	1.70	0.967	155.40	15.95	16.91	17.48	21.85
3	67.00	115.00	0.945	2330.74	1.72	0.969	140.60	16.10	17.07	17.62	22.02

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